

AI113131.Emest6

!!NA_SEQUENCE 1.0

ID AI113131 standard; RNA; EST; 315 BP.
XX
AC AI113131;
XX
SV AI113131.1
XX
DT 04-SEP-1998 (Rel. 56, Created)
DT 15-MAR-1999 (Rel. 59, Last updated, Version 2)
XX
DE UI-R-C2p-nr-f-06-0-UI.s1 UI-R-C2p Rattus norvegicus cDNA clone
DE UI-R-C2p-nr-f-06-0-UI 3', mRNA sequence.
XX
KW EST.
XX
OS Rattus norvegicus (Norway rat)
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria;
OC Rodentia; Sciurognathi; Muridae; Murinae; Rattus.

XX
RN [1]
RP 1-315
RX MEDLINE; 97044477.
RA Bonaldo M.F., Lennon G., Soares M.B.;
RT "Normalization and subtraction: two approaches to facilitate gene
RT discovery";
RL Genome Res. 6(9):791-806(1996).
XX
CC Contact: Soares, MB
CC Program for Rat Gene Discovery and Mapping
CC University of Iowa
CC 451 Eckstein Medical Research Building Iowa City, IA 52242, USA
CC Tel: 319 335 8250
CC Fax: 319 335 9565
CC Email: msoares@blue.weeg.uiowa.edu
CC Oligo-dT track not found, Not I site shown in beginning of sequence
CC is likely internal to the message. cDNA Library Preparation: M.
CC Fatima Bonaldo, Ph.D. Clone distribution: clones will be available

CC through Research Genetics The following repetitive elements were
CC found in this cDNA sequence: 97-125, >GC_rich#Low_complexity
CC Seq primer: M13 Forward.

XX
FH Key Location/Qualifiers
FH
FT source 1. .315
FT /db_xref="taxon:10116"
FT /db_xref="ESTLIB:1413"
FT /note="Vector: pT7T3D-Pac (Pharmacia) with a modified
FT polylinker; Site_1: Not I; Site_2: Eco RI; The UI-R-C2p
FT library is a subtracted library derived from the UI-R-C1
FT library, which is a subtracted library derived from the

FT UI-R-C0 library. The UI-R-C0 library consisted of a
FT mixture of individually tagged normalized libraries
FT constructed from rat placenta, adult lung, brain, liver,
FT kidney, heart, spleen, ovary, muscle, 8, 12 and 18-day

FT by the Not I site and the Higo-AT track which allow
 FT identification of the library of origin of a clone within
 FT the mixture. The subtracted library (UI-R-C2p) was
 FT constructed as follows: PCR amplified cDNA inserts from
 FT UI-R-C1 clones from which 3' ESTs had been derived was used
 FT as a driver in a hybridization with the UI-R-C1 library in
 FT the form of single-stranded circles. The remaining
 FT single-stranded circles (subtracted library) was purified
 FT by hydroxyapatite column chromatography, converted to
 FT double-stranded circles and electroporated into DH10B
 FT bacteria (Life Technologies) to generate the UI-R-C2p
 FT library. This procedure has been previously described
 FT (Bonaldi, Lennon and Soares, Genome Research 6: 791-806,
 FT 1996)"
 FT /organism="Rattus norvegicus"
 FT /strain="Sprague-Dawley"
 FT /clone="UI-R-C2p-nr-f-06-0-UI"
 FT /clone_lib="UI-R-C2p"
 FT /dev_stage="adult"
 FT /lab_host="DH10B (Life Technologies)"
 XX

SQ Sequence 315 BP; 46 A; 110 C; 116 G; 43 T; 0 other;

Ai113131 Length: 315 March 20, 19100 09:52 Type: N Check: 7433 ..

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 51  AGCGGGTGAG GCGCTTGCAC TTGCACGAGG CCACCATACG CACCTTGCGC
101  GAGCGCCGCG CCGCGCCGCC GGGGCACAGC AGCTGCACCC GCTGCGCGCG
151  GTAGCGATCC GGGATGCAGC GGAAGTCGGG TCCGTTCGGG CGCCACCACT
201  TCACGCGCCC GATGGCGTTG GGCAGCAGCC GCGCGGGGCC GCACTGGCCC
251  GAGCACACCA ACTCGGTGAC CGGCTTGGCA CTGCGGCACG GGCCGTCGGT
301  CACGAAGCGG GTGTA

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Hs1222641.Emest24

!!NA_SEQUENCE 1.0

ID HS1222641 standard; RNA; EST; 180 BP.
XX
AC AA393939;
XX
SV AA393939.1
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DT 19-MAY-1997 (Rel. 51, Created)
DT 19-MAY-1997 (Rel. 51, Last updated, Version 1)
XX
DE zv64f09.r1 Soares total fetus Nb2HF8 9w Homo sapiens cDNA clone
DE 758441 5'.
XX
KW EST.
XX
OS Homo sapiens (human)
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria;
OC Primates; Catarrhini; Hominidae; Homo.
XX
RN [1]
RP 1-180

RA Hillier L., Allen M., Bowles L., Dubuque T., Geisel G., Jost S., Kucaba T
RA Lacy M., Le N., Lennon G., Marra M., Martin J., Moore B., Schellenberg K.
RA Steptoe M., Tan F., Theising B., White Y., Wylie T., Waterston R.,
RA Wilson R.;
RT "WashU-Merck EST Project 1997";
RL Unpublished.
XX
DR RZPD; IMAGp998G181865Q6; 16-Jul-1999.
XX
CC Contact: Wilson RK WashU-Merck EST Project Washington University
CC School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis,
CC MO 63108 Tel: 314 286 1800 Fax: 314 286 1810 Email:
CC est@watson.wustl.edu This clone is available royalty-free through
CC LLNL ; contact the IMAGE Consortium (info@image.llnl.gov) for

CC further information. Putative full length read The vector to vector
CC length is Seq primer: -28m13 rev2 ET from Amersham.
XX
FH Key Location/Qualifiers
FH
FT source 1. .180
FT /db_xref="taxon:9606"
FT /db_xref="ESTLIB:843"
FT /db_xref="RZPD:IMAGp998G181865Q6"
FT /note="Vector: pT7T3D-Pac (Pharmacia) with a modified
FT polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA
FT was prepared from mRNA obtained from pooled 8-9 week
FT (total) fetus material with a Not I - oligo(dT) primer [5'

FT TGTTACCAATCTGAAGTGGGAGCGGCCGCTTAATTTTTTTTTTTTTTTTTT 3'].
FT Double-stranded cDNA was ligated to Eco RI adaptors
FT (Pharmacia), digested with Not I and cloned into the Not I
FT and Eco RI sites of the modified pT7T3 vector. Library wer

FT through one round of normalization, and was constructed
FT Bento Soares and M. Fatima Bonaldo."
FT /organism="Homo sapiens"
FT /clone="758441"
FT /clone_lib="Soares total fetus Nb2HF8 9w"
FT /dev_stage="8-9 weeks"
FT /lab_host="DH10B"
FT mRNA <1. .>180
XX
SQ Sequence 180 BP; 61 A; 27 C; 55 G; 37 T; 0 other;

Hs1222641 Length: 180 March 17, 19100 09:46 Type: N Check: 9094 ..

1 GAGAGAGAGA GAGAAAGAGA CTATTGGCAT ATGATTCCAA GGACTCCAGT
51 GCCAGTTGAA TGGGCAGAGG TGAGAGAGAG AGAGAGAAAG AGAGAGAATG
101 AATGCAGTTG CATTGATTCA GTGCCAAGGT CACTTCCAGA ATTCAGAGTT
151 GTGATGCTCT CTTCTGACAG CCAAAGATGA

Ja263085_0001.Dna /rev
Enahum1:Ac003098

ID AC003098 standard; DNA; HUM; 94752 BP.
AC AC003098;
SV AC003098.1
DT 14-NOV-1997 (Rel. 53, Created)
DT 05-JUL-1999 (Rel. 60, Last updated, Version 11)
DE Homo sapiens chromosome 17, clone HRPC905N1, complete sequence.
KW HTG.
OS Homo sapiens (human)
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria;
OC Primates; Catarrhini; Hominidae; Homo.
RN [1]
RP 1-94752
RA Birren B., Fasman K., McKernan K., Nusbaum C., Richardson P., Lander E.;
RT "Homo sapiens chromosome 17, clone HRPC905N1";
RL Unpublished.
RN [2]
RP 1-94752
RA Birren B., Fasman K., McKernan K., Munro C., Nusbaum C., Richardson P.,
RA Lander E., Baldwin J., Barna N., Cantu C., Chang A., Cooke P., Daly M.J.
RA Devon K., Dewar K., DuRette B., Forrest C., Gage D., Gensheimer S.,
RA Geraigery K., Gilmartin T., Hagos B., Halphen I., Harris K., Howland J.C.
RA Huang J., Hui L., Jacotot L., Kirby A., Lane M., MacKenzie J., Marquis N.
RA McDermott J., Molla M., Morrow J., Nachman A., Naylor J., O'Connor T.,
RA Olotu A., Peterson K., Roberts D., Rollins G., Sarnaik A., Shiu P.,
RA Shyam R., Stilwell J., Stone C., Strickland C., Sydney K., Tang L.,
RA Zemtseva I., Zody M.;
RT ;
RL Submitted (10-NOV-1997) to the EMBL/GenBank/DDBJ databases.
RL Whitehead Institute/MIT Center for Genome Research, 320 Charles Street,
RL Cambridge, MA 02141, USA
RN [3]
RP 1-94752
RA Birren B., Fasman K., McKernan K., Nusbaum C., Richardson P., Lander E.,
RA Allen N., Baker J., Baldwin J., Barna N., Beckerly R., Boutwell C.,
RA Byrne S., Cantu C., Castle A., Cooke P., Daly M.J., Depayre E., Devon K.,
RA Dewar K., DuRette B., Etemadi S., Ferreira P., Forrest C., Gage D.,
RA Gardyna S., Gensheimer S., Geraigery K., Gilmartin T., Gray D., Hagos B.,
RA Harris K., Horton L., Howland J.C., Hui L., Jacotot L., Linton L.,
RA MacKenzie J., Marquis N., McEwan P., McGurk A., Meldrim J., Molla M.,
RA Morris W., Morrow J., Nachman A., Naylor J., O'Connor T., Pavlin B.,
RA Peterson K., Ranganath S., Riley R., Roberts D., Rollins G., Rossello R.,
RA Roy A., Shyam R., Soohoo S., Stilwell J., Stone C., Strickland C.,
RA Sydney K., Tang L., Vassiliev H., Vo A., Wagner A., Wheeler J., Wu Y.,
RA Ye W.J., Zemtseva I., Zhao J., Zody M.;
RT ;
RL Submitted (29-JAN-1998) to the EMBL/GenBank/DDBJ databases.
RL Whitehead Institute/MIT Center for Genome Research, 320 Charles Street,
RL Cambridge, MA 02141, USA
CC All repeats were identified using RepeatMasker: Smit, A.F.A. &
CC Green, P. (1996-1997) . . .

SCORES Initl: 10214 Initn: 10214 Opt: 10221 z-score: 3674.2 E():
99.4% identity in 2073 bp overlap

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Sa263085_000                  CTTTCGGTCATGATTCATTGTCTTTATTAA
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                2269      2259      2249      2239      2229      2219
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                2209      2199      2189      2179      2169      2159
Sa263085_000 ATTCTCTACAAGAAAACTTTTGCATAAATAACTTAAGTGAGAAAATAAATATGTAACCTT
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                4350      4360      4370      4380      4390      4400

                2149      2139      2129      2119      2109      2099
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                4410      4420      4430      4440      4450      4460

                2089      2079      2069      2059      2049      2039
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                4470      4480      4490      4500      4510      4520

                2029      2019      2009      1999      1989      1979
Sa263085_000 TTTTAACAATTAAAAACTACACAGAAAGTAAGAGGTTGTCTGGAAATGATTTTCAAAAAG
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                1969      1959      1949      1939      1929      1919
Sa263085_000 ATTTTTGGGTGGCAGCTATTATGCTCTGCAGTTTCTCAGCATATGTACAGCACTTGTAGT
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Ac003098      ATTTTTGGGTGGCAGCTATTATGCTCTGCAGTTTCTCAGCATATGTACAGCACTTGTAGT
                4590      4600      4610      4620      4630      4640

                1909      1899      1889      1879      1869      1859
Sa263085_000 TTTTCCCCCAATAATATTCTTTTAGTGTAAGATATGCCATCACATGTAAGAGCAGTAAGA
                |||
Ac003098      TTTTCCCCCAATAATATTCTTTTAGTGTAAGATATGCCATCACATGTAAGAGCAGTAAGA
                4650      4660      4670      4680      4690      4700

                1849      1839      1829      1819      1809      1799
Sa263085_000 AGCTGTTTTCTAGGCAGAAATGTGTCCGTGAGTGGTGGGCAGAAGGCGGTGTCTCAAAAAG
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Ac003098      AGCTGTTTTCTAGGCAGAAATGTGTCCGTGAGTGGTGGGCAGAAGGCGGTGTCTCAAAAAG
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	1789	1779	1769	1759	1749	1739
Sa263085_000	GGATGTGCTGGTCTGTGAGTTTGTGATGGCTGCTCCCTCGGGCCTGCAAGGCCAGTGTCC					
Ac003098	GGATGTGCTGGTCTGTGAGTTTGTGATGGCTGCTCCCTCGGGCCTGCAAGGCCAGTGTCC					
	4770	4780	4790	4800	4810	4820
	1729	1719	1709	1699	1689	1679
Sa263085_000	TTGAACCTTTCACCTTCTCTTCGGAAGGTGACTTTAAACATGGCTATGGGTCGGGGGAGG					
Ac003098	TTGAACCTTTCACCTTCTCTTCGGAAGGTGACTTTAAACATGGCTATGGGTCGGGGGAGG					
	4830	4840	4850	4860	4870	4880
	1669	1659	1649	1639	1629	1619
Sa263085_000	GATGCTGCTCTTTGGGAAGTTGGGGCGGATGTGATTTCTATCCCTCCCACCACCTCGGA					
Ac003098	GATGCTGCTCTTTGGGAAGTTGGGGCGGATGTGATTTCTATCCCTCCCACCACCTCGGA					
	4890	4900	4910	4920	4930	4940
	1609	1599	1589	1579	1569	1559
Sa263085_000	CCCTCTCCTTTTCTACCCCAATGGATGATGTTATTTCTTTGAGATGGAGGGGTGGAGGTA					
Ac003098	CCCTCTCCTTTTCTACCCCAATGGATGATGTTATTTCTTTGAGATGGAGGGGTGGAGGTA					
	4950	4960	4970	4980	4990	5000
	1549	1539	1529	1519	1509	1499
Sa263085_000	GCCAAACATCCGGGGAAGCCAGGCTGGGAAGCAGCATAGCTTCTTCCAGGAGTTTGTTCAG					
Ac003098	GCCAAACATCCGGGGAAGCCAGGCTGGGAAGCAGCATAGCTTCTTCCAGGAGTTTGTTCAG					
	5010	5020	5030	5040	5050	5060
	1489	1479	1469	1459	1449	1439
Sa263085_000	CCGTAAATATGTCAGCCATAAATAGACTCTTTACTTTTTTTTTTCTGTTTGTTTTTTCATC					
Ac003098	CCGTAAATATGTCAGCCATAAATAGACTCTTTACTTTTTTTTTTCTGTTTGTTTTTTCATC					
	5070	5080	5090	5100	5110	5120
	1429	1419	1409	1399	1389	1379
Sa263085_000	TTTGGCTGTCAGAAGAGAGCATCACAACCTCTGAATTCTGGAAGTGACCTTGGCACTGAAT					
Ac003098	TTTGGCTGTCAGAAGAGAGCATCACAACCTCTGAATTCTGGAAGTGACCTTGGCACTGAAT					
	5130	5140	5150	5160	5170	5180
	1369	1359	1349	1339	1329	1319
Sa263085_000	CAATGCAACTGCATTCAATTCTCTCTCTTTCTCTCTCTCTCTCACCTCTGCCCATTCAA					
Ac003098	CAATGCAACTGCATTCAATTCTCTCTCTTTCTCTCTCTCTCTCACCTCTGCCCATTCAA					
	5190	5200	5210	5220	5230	5240
	1309	1299	1289	1279	1269	1259
Sa263085_000	AAGGCACTGGAGTCCTTGAATCATATGCCAATAGTCTCCTCGAGATCCTATTCCCACCT					
Ac003098	AAGGCACTGGAGTCCTTGAATCATATGCCAATAGTCTCCTCGAGATCCTATTCCCACCT					
	5250	5260	5270	5280	5290	5300

	1249	1239	1229	1219	1209	1199
Sa263085_000	CCACCCTCATT	TTACAAAGT	GGAAT	TGAGGT	CCCGAAGG	AAGATTGTGTAGTTCAAGGT
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	5310	5320	5330	5340	5350	5360
	1189	1179	1169	1159	1149	1139
Sa263085_000	TACACAGCAAGT	TAGTGGCAGAGCCAGG	ACTAGAAACCACATCTACAGTTGCC	CCCCAGTC		
Ac003098	TACACAGCAAGT	TAGTGGCAGAGCCAGG	ACTAGAAACCACATCTACAGTTGCC	CCCCAGTC		
	5370	5380	5390	5400	5410	5420
	1129	1119	1109	1099	1089	1079
Sa263085_000	TTGTGCTCTGGGCACGCCTCAGGCTTTCTGATGGGCAGCGAGGTGCAAGGGGGAATCTTA					
Ac003098	TTGTGCTCTGGGCACGCCTCAGGCTTTCTGATGGGCAGCGAGGTGCAAGGGGGAATCTTA					
	5430	5440	5450	5460	5470	5480
	1069	1059	1049	1039	1029	1019
Sa263085_000	TCCAAC	TTTCTTAACCAGTCCCTGGACTTTCCCACTCCCACACCGCTCCCTTAAAACCCC				
Ac003098	TCCAAC	TTTCTTAACCAGTCCCTGGACTTTCCCACTCCCACACCGCTCCCTTAAAACCCC				
	5490	5500	5510	5520	5530	5540
	1009	999	989	979	969	959
Sa263085_000	AGGGCGGTGAAAATGCTTCCATTTCTGCCTCCTCTGAAGTGGGACCAGCAAAGGTAGGCG					
Ac003098	AGGGCGGTGAAAATGCTTCCATTTCTGCCTCCTCTGAAGTGGGACCAGCAAAGGTAGGCG					
	5550	5560	5570	5580	5590	5600
	949	939	929	919	909	899
Sa263085_000	GCCCCAGAGGCGGGGCTGCGTGGCTCAGTGTCTGTGACTCTCAATTCCTCCCCTGCCCC					
Ac003098	GCCCCAGAGGCGGGGCTGCGTGGCTCAGTGTCTGTGACTCTCAATTCCTCCCCTGCCCC					
	5610	5620	5630	5640	5650	5660
	889	879	869	859	849	839
Sa263085_000	GTGGGACCCCTCAGCTGGCGGGCTGAGGGGGGCCTTGCCGGCGCCCGGGATTCTCAGGG					
Ac003098	GTGGGACCCCTCAGCTGGCGGGCTGAGGGGGGCCTTGCCGGCGCCCGGGATTCTCAGGG					
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	829	819	809	799	789	779
Sa263085_000	CCTGGAAGGTCTCAGCCCCCTGCCCTGGGTTGCAGGCATTTACAATGAAATATAACAAT					
Ac003098	CCTGGAAGGTCTCAGCCCCCTGCCCTGGGTTGCAGGCATTTACAATGAAATATAACAAT					
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	769	759	749	739	729	719
Sa263085_000	CAAACCACGCGCAGAGGACAGAAATGTGGGGCGCGGGTTCAGGGCCGGGGCGCCCCGCCGG					
Ac003098	CAAACCACGCGCAGAGGACAGAAATGTGGGGCGCGGGTTCAGGGCCGGGGCGCCCCGCCGG					
	5790	5800	5810	5820	5830	5840

	709	699	689	679	669	659
Sa263085_000	TGGGGAGGGGCGCGGGCGGGCTCTAGTAGGCGTTCTCCAGCTCGGCCTGGTTGGCTTTGG					
Ac003098	TGGGGAGGGGCGCGGGCGGGCTCTAGTAGGCGTTCTCCAGCTCGGCCTGGTTGGCTTTGG					
	5850	5860	5870	5880	5890	5900
	649	639	629	619	609	599
Sa263085_000	CGCTCCGGGCGCGGGGCCGCGGCTTCCGGCCCTTCTGCGGCCGAGCGGCCTCGGTCCCGA					
Ac003098	CGCTCCGGGCGCGGGGCCGCGGCTTCCGGCCCTTCTGCGGCCGAGCGGCCTCGGTCCCGA					
	5910	5920	5930	5940	5950	5960
	589	579	569	559	549	539
Sa263085_000	AGTCCTTGAGCTCCGACTGGTTGTGGAAGCGGGTGAGGCGCTTGCACTTGACAGAGGCCA					
Ac003098	AGTCCTTGAGCTCCGACTGGTTGTGGAAGCGGGTGAGGCGCTTGCACTTGACAGAGGCCA					
	5970	5980	5990	6000	6010	6020
	529	519	509	499	489	479
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	469	459	449	439	429	419
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Ac003098	GCGCGCGGTAGCGGTCGGGGATGCAGCGGAAGTCGGGCCCCTAGGTCGCCACCACTTGC					
	6090	6100	6110	6120	6130	6140
	409	399	389	379	369	359
Sa263085_000	CGCGGCCGATGGCGTTGGGCAGCAGGCGCGCCGGGCGCACTGGCCGGAGCACACCAGCT					
Ac003098	CGCGGCCGATGGCGTTGGGCAGCAGGCGCGCCGGGCGCACTGGCCGGAGCACACCAGCT					
	6150	6160	6170	6180	6190	6200
	349	339	329	319	309	299
Sa263085_000	CGGTGACCGGCTTGGCGCTGCGGCACGGCCCATCGGTACGTAGCGGGTGAAGTGCAGCT					
Ac003098	CGGTGACCGGCTTGGCGCTGCGGCACGGCCCATCGGTACGTAGCGGGTGAAGTGCAGCT					
	6210	6220	6230	6240	6250	6260
	289	279	269	259	249	239
Sa263085_000	CGCGGCAGCTGTACTCGGACACGTCTTTGGTCTCAAAGGGGTG-GTG-GGGAGGCCGCCC					
Ac003098	CGCGGCAGCTGTACTCGGACACGTCTGTGG--AGAGAGGCGCGCGTGAGGGTGGCCGCCC					
	6270	6280	6290	6300	6310	6320
	229	219	209	199	189	179
Sa263085_000	TCCGTTCTCCGCCCGGTTTCATGGTCTTGTGTTCTCCAGCTCCGGTGGAGGCTCGGGGTA					
Ac003098	GCCTGGCCACCCCTGCCCTGGACCGGCCCGTCTCTCTCCACCCAGCCCTGCTTTTGCCA					
	6330	6340	6350	6360	6370	6380